

UNIVERSAL EXHIBITION
OF CHICAGO — 1893

SOME WORDS

ABOUT THE

SOCIÉTÉ DE L'INDUSTRIE MINÉRALE



SAINT-ÉTIENNE
IMPRIMERIE THÉOLIER ET C^{ie}
12, Rue Gérentet, 12

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ABOUT THE

SOCIÉTÉ DE L'INDUSTRIE MINÉRALE

This Society has its seat at Saint-Etienne, Loire, France. Its object is to cooperate to the progress and development of mining and metallurgy, and of the various industries connected with those important branches of human activity.

The number of members is illimited. Foreigners, as well as frenchmen can be admitted, and also scientific, industrial and commercial Societies.

To become member of the Society, one must be proposed by two members, and admitted by the Board of Directors. Each member has to pay an annual subscription amounting to 30 francs (6 dollars).

All publications of the Society are received by the members, without extra charge. They are : 1st a periodical, entitled : « *Bulletin de la Société de l'Industrie minérale.* » 2^d the monthly proceedings of the district meetings. (*Comptes rendus mensuels*).

The Society is divided into districts. Members of

each district are periodically convoked to meetings, where they have opportunities to know each other, to have their attention directed towards the actual questions of interest, and to discuss, in a useful and suggestive manner, papers read about mining and metallurgy. There are actually nine districts, eight in France, and one in Belgium.

Besides these monthly district meetings, the Board of directors organize, at periodical intervals, of four or five years general, meetings, or Congresses, where all members of the Society are assembled, and which are held in the industrial parts of the country, where mines and metallurgical works are numerous. Many of these Congresses have had a wide reputation in the engineering world. Special notice must be given to the Congress held in the departement of Gard, in 1882, and to the Congress held in the East of France and in Belgium (1887). The mining and metallurgical Congress, held in Paris during the Exhibition in 1889, had also been organized by our Society. Another Congress will be held this year (1893) in the most industrial parts of central France (Blanzy, Creusot).

The Society was organized at Saint-Etienne, on the 29th day of April, 1855, by the renowned Gruner, who was then chief Engineer of the national corps

of mines, and director of the School of mines of Saint-Etienne.

Thanks to the energetic impulsion given by Mr Gruner, and to the activity of the teachers and alumni of the School of mines of Saint-Etienne, the Society grew rapidly. District committees were organized 1860, but they were but little active, until 1870. In 1871, the general assembly organized the monthly meetings of Saint-Etienne, where regular work was since then general performed, and which grew rapidly famous. From 1872 on, the proceedings of these meetings were published, under the name of « *Comptes-rendus mensuels* » and in 1876, the proceedings of the other district meetings were published together.

When the last general meeting assembled (May 15th 1892), the Society had 1.055 members, of all nationalities, and exchanged its publications with a great number of scientific societies of the old as well as the new world. In his address, the President, Mr Castel, inspector general of mines, pointed out, to the applause of the members present, the continuous progress of Gruner's foundation, the constant increase of membership, the growing renown of the Society, and the increasing success of its publications.

The *Bulletin de l'Industrie Minérale* is a quarterly review. The four parts published in a year make

altogether a volume of 1000 to 1200 pages; to which is annexed an atlas containing about 42 plates of engraved figures.

The *Monthly proceedings* make altogether, in a year, a volume of 200 to 300 pages, with 20 to 30 small plates of engraved figures.

These two publications are of a capital interest for all those who wish to follow the progress of Mining and metallurgy. In order to give an idea of their importance, we shall give here the index of the last published volume of the *Bulletin*.



ANALYTICAL INDEX

of the « Bulletin » of 1891



GEOLOGY AND MINING

On the carboniferous seams of « Bas Boulonnais » by M. L. Breton, engineer in charge of the Society of the Under-Channel railroad between France and England.

On the slate quarries of Rochefort-en-Terre by M. Alex. Antissier, engineer, manager of the quarries.

Technical and Economical studies on iron ore, by M. Danton, manager of iron mines in *Anjou*.

The Coalfield of Carmaux-Albi, by M. J. Laromiguière, mining engineer.

On the copper mines of the Society of Jerez-Lanteira, province of Grenada (Spain), by M. Terrillon, engineer.

On the underground pump of the Viaduc pit, at Gagnières, by M. Nagel, engineer in charge of the collieries of Salles and Montalet.

Conclusions of the final Report of the Austrian Committee on fire-damp (translated by M. René Grey).

METALLURGY

On the metallurgy of aluminium and its appliances, by M. U. Le Verrier, chief engineer of the Corps of mines, professor of metallurgy at the *Conservatoire des Arts et Métiers*.

On the exhibition of Messrs Deflassieux bros of Rive-de-Gier.

On a new system of Siemens furnace with gaz regeneration, by M. P. Pouff, civil engineer.

Technical and economical studies on the industrial treatment of iron ores, by M. Danton.

On Coking, by M. Rossigneux, mining engineer.

Metallurgy at the industrial exhibition of Saint-Etienne, by Messrs Reynaud and Mariotte, engineers at the steel works of Saint-Etienne.

CIVIL ENGINEERING, AND VARIOUS INDUSTRIES

Theoretic and experimental studies on lubrication and lubricants, by M. Dron-Lisbet, mining engineer.

On the engines, with rotary distribution, built by Messrs V. Bietrix & Co, by M. Couffinhal, chief engineer at the Chaleassiere works.

On the winding engine of the Montmartre n^o 1 Pit, of the Beaubrun mines, built by Messrs Schneider & Co, of Creusot

On the electrical plant built by Messrs Schneider & Co, by M. Faivelay, engineer, at Creusot.

Exhibition of Saint-Etienne. — Notes on the metallic structures, by M. Gabriel Gorrand, engineer of the Michalon et Pailleret firm.

Essay of a general theory of the fluid engines, by M. Mortier, manager of the Saint-Etienne Edison Co's works.

STATISTICS. — JURISPRUDENCE

Extracts of Jurisprudence.

On the fiftieth anniversary of M. F. Chalmeton, manager of the Besseges collieries.

Statistics of Belgian mines and works for 1889, by M. E. Harzé.

Prices of coal, coke, Pig iron, wrought iron, steel and other metals :

On August 1st 1891.

On November 30th 1891.

On February 15th 1892.

On May 15th 1892.

List of publications received by the Society.

Amongst the valuable pamphlets published in the *Bulletin de l'Industrie minérale*, special notice must be given to the *Studies on the coalfield of Commentry* by Messrs Fayol, Zeiller, Renault, de Launay, Stanislas Meunier, Sauvage and Brongniart. These studies have not yet been completed. They have brought much light upon the very interesting question of the genesis of coal and the deposition of coal seams, and have also widely enlarged our knowledge of the flora and fauna of the carboniferous age. No geological formation in the world has been so thoroughly studied and so exactly and perfectly described as the coalfield of Commentry. The history of this basin is, so to say, related year by year.

We shall end this short pamphlet by expressing the wish that the engineers who do not yet know the *Société de l'Industrie minérale* should examine the collection of its publications. No doubt they will come to us, attracted by the serious qualities of our work. To day there are no more local questions in mining as well as in metallurgy : but only universal questions. A Society like ours can therefore pretend to the honor of comprehending under its pacific

banner engineers of all countries. If we could realize this dream, we should not only cooperate to the progress of science and industry ; but also prepare the triumph, many times more desirable, of universal fraternity.

Saint-Etienne, february 1st 1893.

The Board of Directors :

President :

MESSRS

CASTEL, inspector general of Mines, at Paris.

Vice-Presidents :

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EVARD (Maxim.), engineer, at St-Etienne.

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TERMIER, engineer of the Corps of Mines, professor at the school of Mines of St-Etienne.

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DESBIEF, engineer, at St-Etienne.

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PINEL, under-manager of the collieries of Montrambert and La Beraudière.

DU ROUSSET, manager of the Loire collieries, at St-Etienne.

VOISIN, chief engineer of the Collieries of Roche-la-Molière et Firminy.

WERY, manager of the collieries of La Chazotte.

